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(21)Application number : 60-136729

(71)Applicant : ASAHI CHEM IND CO LTD

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(54) RECEPTOR PROTEIN FOR PHYSIOLOGICALLY ACTIVE SUBSTANCE

(57)Abstract:

PURPOSE: To provide the titled receptor protein having the properties of novel cancer-specific antigen common to a wide variety of cancer cells and useful as an antigen to obtain an antibody for the development of novel method for the diagnosis and remedy for cancer.

CONSTITUTION: The receptor protein of physiologically active substance (e.g. rabbit TNF, hyman TNF, etc.), having cytotoxic activity against L-M cell and causing hemorrhagic necrosis reaction to the tumor part when administered to BALB/c mouse transplanted with Meth A Sarcoma cancer cell. The protein has a molecular weight of $95,000 \pm 10,000$ (SDS-polyacrylamide electrophoresis) and forms a both with a physiologically active substance having a dissociation constant of 1×10^{-9} to 1×10^{-10} . It can be separated by subjecting the membrane fraction of a cell sensitive to the physiological active substance to the purification process including the affinity chromatography using an affinity adsorbent produced by immobilizing said physiologically active substance on a carrier.